

Title (en)

Creating geometry for advanced driver assistance systems

Title (de)

Erstellung von Geometrie für Fahrerassistenzsysteme

Title (fr)

Création de géométrie pour des systèmes d'aide à la conduite

Publication

EP 2172748 A2 20100407 (EN)

Application

EP 09252209 A 20090917

Priority

- US 10175208 P 20081001
- US 54070409 A 20090813

Abstract (en)

A method and system for creating geometry for ADAS are described. Link chains, which are a sequence of segments, are created. The link chains are used to create 2D splines. The link chains, the 2D splines, and height data are used to create 3D splines. The 3D splines and possibly the 2D splines are converted to Bezier curves, which can be used to create a 2D polyline. ADAS applications can use the Bezier curves and the 2D polylines to provide ADAS functions.

IPC 8 full level

G01C 21/32 (2006.01); **B60W 30/12** (2006.01); **G01C 21/26** (2006.01); **G06F 17/30** (2006.01); **G06T 15/00** (2011.01); **G06T 17/05** (2011.01); **G08G 1/16** (2006.01); **G09B 29/00** (2006.01); **G09B 29/10** (2006.01)

CPC (source: EP US)

G01C 21/36 (2013.01 - US); **G01C 21/3819** (2020.08 - EP US); **G01C 21/3844** (2020.08 - EP US); **G01C 21/3867** (2020.08 - EP US); **G06F 16/29** (2018.12 - EP US); **G06T 15/20** (2013.01 - US)

Citation (applicant)

- US 2006100780 A1 20060511 - ALEKSIC MARIO [DE], et al
- US 6405128 B1 20020611 - BECHTOLSHEIM STEPHAN [US], et al
- US 7084882 B1 20060801 - DORUM OLE HENRY [US], et al

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US11604075B2; CN104713564A; CN109584306A; US9097551B2; US9423261B2; US10197404B2; EP3259559B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2172748 A2 20100407; **EP 2172748 A3 20130313**; **EP 2172748 B1 20141112**; JP 2010086544 A 20100415; US 2010082248 A1 20100401; US 2014249716 A1 20140904; US 8762046 B2 20140624; US 9068856 B2 20150630

DOCDB simple family (application)

EP 09252209 A 20090917; JP 2009244906 A 20091001; US 201414277529 A 20140514; US 54070409 A 20090813